## We claim:

1	1. A bending press for bending metal plates in the
2	production of pipe, comprising:
3	a press bed formed with a lower die against which a
4	metal plate can be pressed to bend said plate;
5	a bending ram extending over the length of said lower
6	die and formed with an upper die of downwardly convex shape
7	engageable with said plate to press said plate against said lower
8	die under said plate; and
Q	an articulation for said upper die

- 2. The bending press defined in claim 1 wherein said articulation for said upper die includes a pivot having a pivot axis extending parallel to said lower die between said upper die and a foot of said ram.
- 3. The bending press defined in claim 2 wherein said articulation includes a pivot for said ram at an upper end thereof having a pivot axis parallel to said die.
- 4. The bending press defined in claim 3 wherein said articulation forms a pivot axis for said upper die close to an upper surface of said plate.

- 5. The bending press defined in claim 4, further
  comprising at least one force-restoring member braced to bias
  said upper die back into an original position upon displacement
  of said upper die about said articulation.
- 6. The bending press defined in claim 5 wherein said upper die is articulated on said ram, said force-restoring member including a spring braced between said ram and said upper die.
- 7. The bending press defined in claim 5 wherein said ram is formed with said articulation at an upper end thereof and said force-restoring member is braced across said articulation.
- 8. The bending press defined in claim 5 wherein said
   force-restoring member includes a pair of springs.
- 9. The bending press defined in claim 1 wherein said ram comprises a generally upright plate of substantially uniform wall thickness over its height.
- 1 10. The bending press defined in claim 3 wherein said 2 articulation includes a pivot for said ram at an upper end 3 thereof having a pivot axis parallel to said die.

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1	11. A method of bending a metal plate in the formation
2	of large diameter pipe comprising the steps of repeatedly
3	pressing a metal plate by an upper die at the bottom of a ram
4	driven by a press head from above against a lower die on a press
5 ,	bed and in which the upper and lower die extend over the length
6	of the plate to bend the plate;
. 7	repeating the bending step until a desired shape is
8	imparted to said plate; and
9	articulating the upper die to enable it to adjust
10	articulating to a contour of said plate during each bending
11	thereof thereby limiting bending stress upon said ram.
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, 1	12. A method of operating a bending press for the
, <b>2</b>	bending of steel plate for the production of large diameter pipe,
3	which comprises the steps of:
4	placing a steel plate on a lower die on a bed of a
5	bending press in which said lower die comprises a pair of
6	supports enabling said plate to be bent between them;
7	pressing an upper die against said plate from above at
8	the bottom of a sword-shaped ram driven by a head of the press
9	downwardly to bend said plate; and
10	articulating said upper die during the bending of said
11	plate so as to minimize a bending moment on said ram.